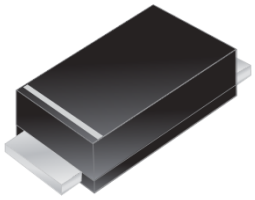
EBRT2L40P

Excellent Schottky Barrier Rectifiers



SOD-123F

Primary Characteristics		
I_F	2	A
V_{RRM}	40	V
I_{FSM}	20	A
V_F	0.5	V
T_J max	125	°C

Features

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Low Forward Voltage
- RoHS Compliant Product

Mechanical Data

- Case：SOD-123F
- Case Material：Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals：Lead free Plating (Tin Finish) Solderable per MIL-STD-202, Method 208
- Polarity：Cathode Band
- Weight：0.022 grams (approximate)

Ordering Information

Part No.	Remark	Package	Packing
EBRT2L40P	RoHS Compliant	SOD-123F	3000 / Tape & Reel
EBRT2L40P-H	Halogen Free		
EBRT2L40P-Q	AEC-Q101 qualified		

Maximum Ratings (TA=25°C unless otherwise noted)

Parameter	Symbol	EBRT2L40P	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current	I_F	2.0	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	20.0	A
Maximum Instantaneous Forward Voltage IF=2A @ 25°C	V_F	0.5	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=100°C	I_R	0.2 10	mA
Typical Junction Capacitance (NOTE1)	C_J	150	pF
Typical Thermal Resistance	$R_{\theta JC}$	30	°C/W
Operating Temperature Range	T_J	-55 to +125	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C
Marking Code		L4	

NOTES：

1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC

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Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

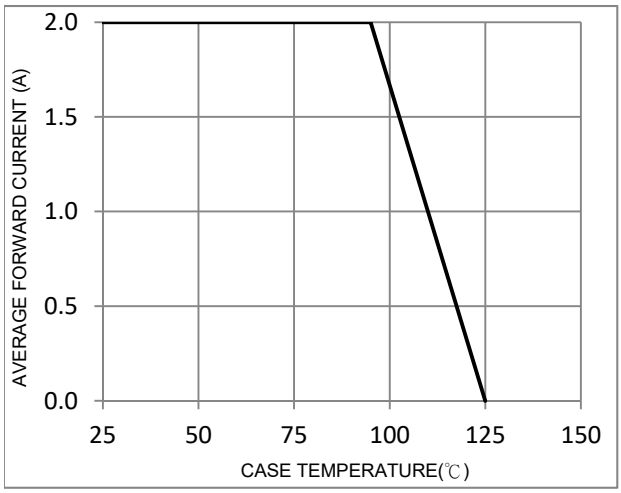


FIG. 2-Typical Forward Characteristics

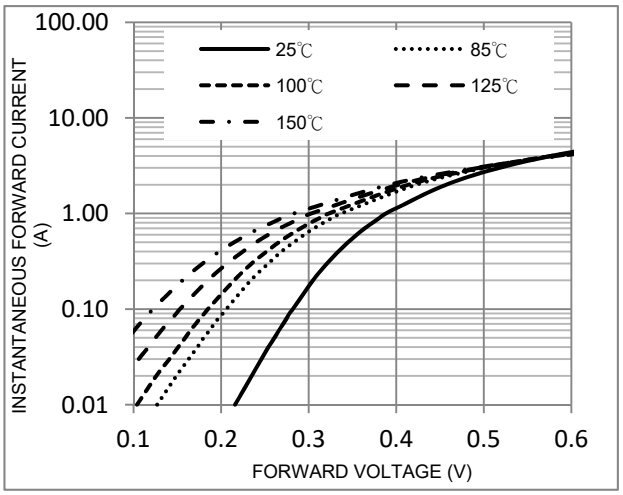


FIG. 3-Maximum Non-Repetitive Forward Surge Current

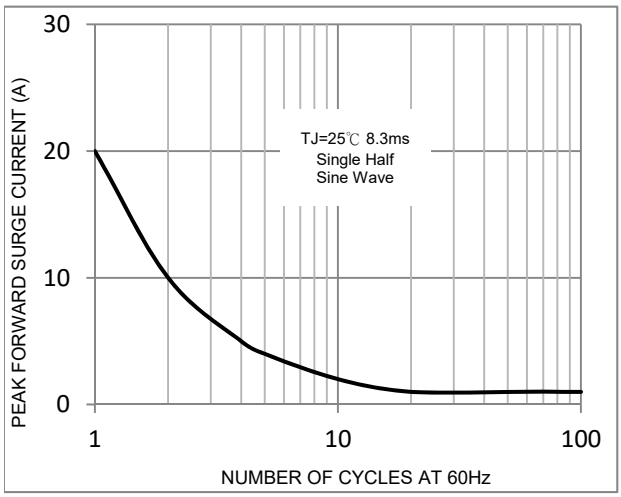


FIG. 4-Typical Reverse Characteristics

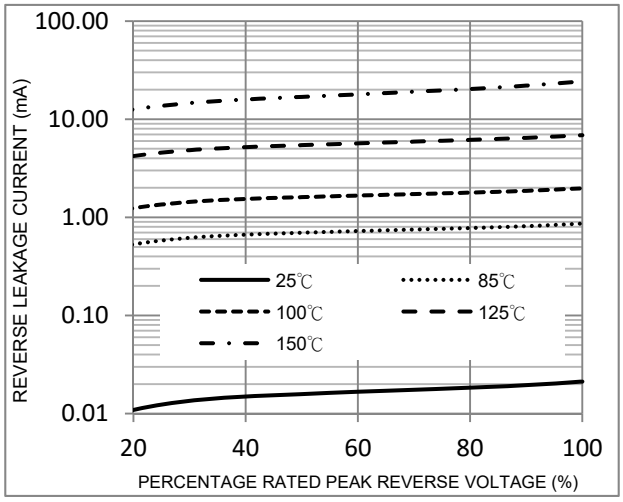
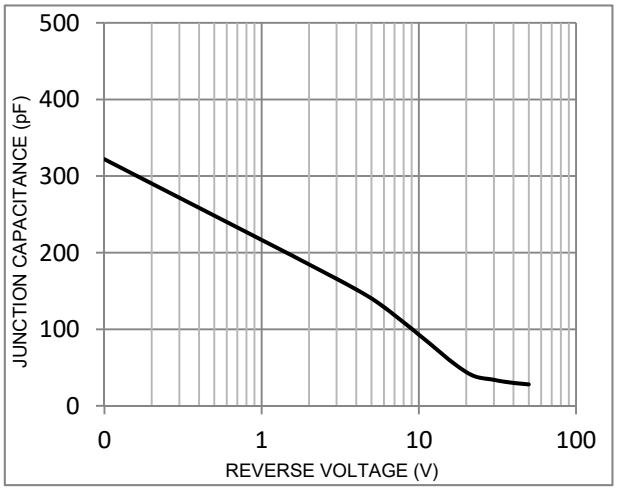


FIG. 5-Typical Junction Capacitance



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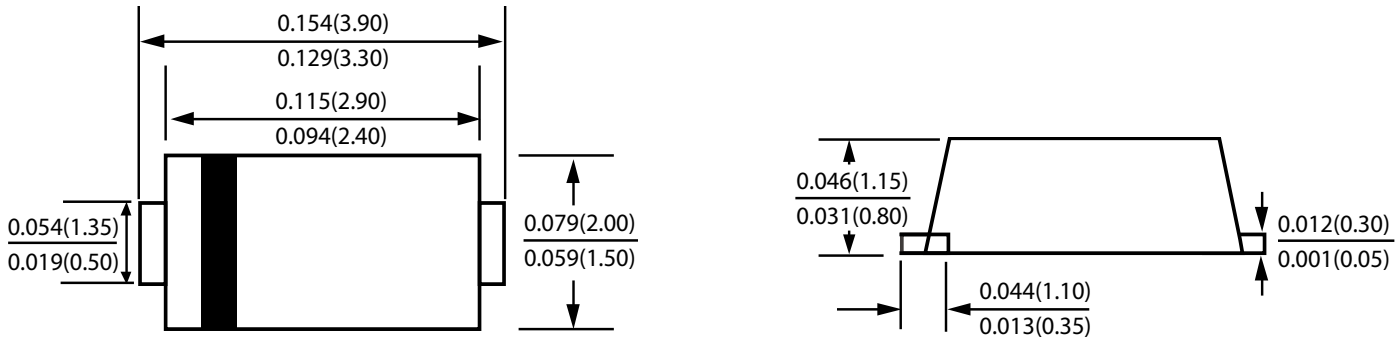
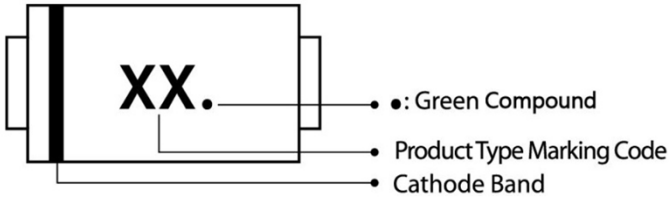
Package Outline Dimensions



SOD-123F

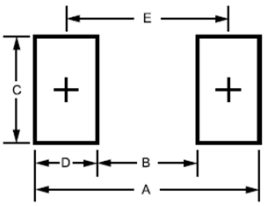
Dimensions in inches and (millimeters)

Marking Information



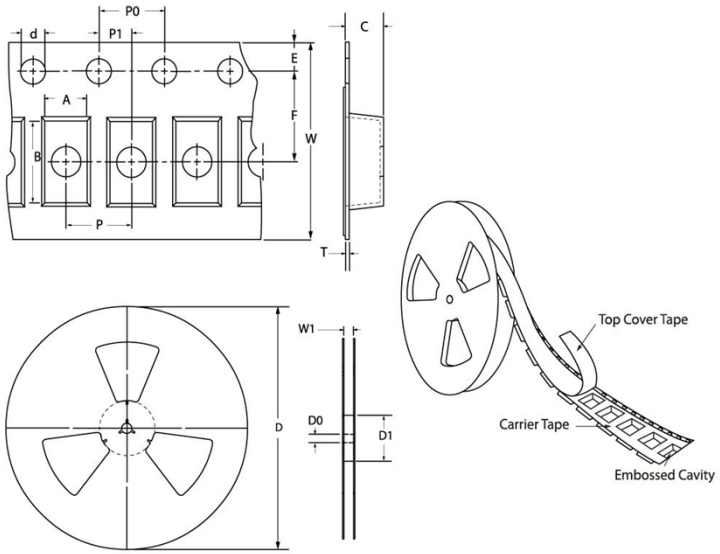
Suggested Pad Layout

Dimension \ Outline	SOD-123F (mm)
A	4.20
B	1.52
C	1.80
D	1.34
E	2.86



Tap & Reel Specification

Item	Symbol	SOD-123F (mm)
Carrier width	A	2.00 ± 0.15
Carrier length	B	3.98 ± 0.13
Carrier depth	C	1.38 ± 0.17
Sprocket hole	d	1.75 ± 0.35
Reel outside diameter	D	180 (max)
Reel inner diameter	D1	50 (min)
Feed Hole diameter	D0	13.10 ± 0.6
Sprocket hole position	E	1.75 ± 0.1
Punch hole position	F	3.50 ± 0.1
Punch hole pitch	P	4.00 ± 0.1
Sprocket hole pitch	P0	4.00 ± 0.1
Embossment center	P1	2.00 ± 0.1
Overall tape thickness	T	0.28 (max)
Tape width	W	8.00 ± 0.3
Reel width	W1	10.0 ± 2



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